

Declaration and Power of Attorney for Patent Application
English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

HLA LINKED PRE-ECLAMPSIA AND MISCARRIAGE SUSCEPTIBILITY GENE

the specification of which

(check one)

corresponds to PCT/IE99/00012, filed February 25, 1999.
 was filed on _____ as United States Application No. or PCT
Application No. _____
and was amended on _____
(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

980134 (Number)	Ireland (Country)	25 February 1998 (Day/Month/Year Filed)	<input type="checkbox"/>
980668 (Number)	Ireland (Country)	12 August 1998 (Day/Month/Year Filed)	<input type="checkbox"/>
			<input type="checkbox"/>

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

(Application Serial No.) (Filing Date)

(Application Serial No.) (Filing Date)

(Application Serial No.) (Filing Date)

I hereby claim the benefit under 35 U.S.C. Section 120 of the United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark office all information known to me to be material to patentability as defined in Title 37, C.F.C., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

PCT/IE99/00012 25 February 1999 Pending
(Application Serial No.) (Filing Date) (Status)
(patented, pending, abandoned)

(Application Serial No.) (Filing Date) (Status)
(patented, pending, abandoned)

(Application Serial No.) (Filing Date) (Status)
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✓
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

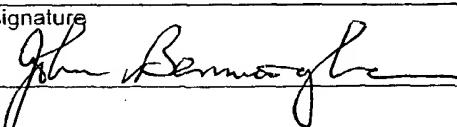
POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

David G. Conlin	Reg. No. 27,026	Christine C. O'Day	Reg. No. 38,256
George W. Neuner	Reg. No. 26,964	Robert L. Buchanan	Reg. No. 40,927
Linda M. Buckley	Reg. No. 31,003	David E. Tucker	Reg. No. 27,840
Peter J. Manus	Reg. No. 26,766	Lisa Swiszcz Hazzard	Reg. No. 44,368
Peter F. Corless	Reg. No. 33,860	George W. Hartnell	Reg. No. 42,639
Cara Z. Lowen	Reg. No. 38,227	Jennifer K. Holmes	Reg. No. 46,778
William J. Daley, Jr.	Reg. No. 35,487	Kerri Pollard Schray	Reg. No. 47,066

Send Correspondence to: Peter F. Corless
 EDWARDS & ANGELL, LLP
 Dike, Bronstein, Roberts & Cushman, IP Group
 130 Water Street
 Boston, Massachusetts 02109
 USA

Direct Telephone Calls to:
 (name and telephone number) Peter F. Corless
 Telephone: (617) 523-3400
 Facsimile: (617) 523-6440

Full name of sole or first inventor Margaret O'BRIEN	Sole or first inventor's signature	Date:
Residence Flat 2, 63 Shandon Street, Cork, Ireland		
Citizenship Ireland		
Post Office Address Same As Above		

Full name of second inventor John BERMINGHAM	Second inventor's signature 	Date: 24/1/90
Residence 37 Castleknock Crescent, Castleknock Co. Dublin, Ireland		
Citizenship Ireland		
Post Office Address Same As Above		

Full name of third inventor	
Kathleen A. QUANE	
Third inventor's signature	Date:
Residence	
Monanimy Upper, Killavullen Co. Cork, Ireland	
Citizenship	
Ireland	
Post Office Address	
Same As Above	

Full name of sole or fourth inventor	
David M. JENKINS	
Fourth inventor's signature	Date:
Residence	
27 Highlands, Passage West, Cork, Ireland	
Citizenship	
Great Britain	
Post Office Address	
Same As Above	

Full name of fifth inventor	
Tommie V. McCARTHY	
Fifth inventor's signature	Date:
<i>Tommie McCarthy</i>	
Residence	
Vista Villa, Montenotte, Cork, Ireland	
Citizenship	
Ireland	
Post Office Address	
Same As Above	

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PCT/IE99/00012

(Application Serial No.)

25 February 1999

(Filing Date)

Pending

(Status)

(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)

(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)

(patented, pending, abandoned)

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14/	David G. Conlin	Reg. No. <u>27,026</u>	Christine C. O'Day	Reg. No. <u>38,256</u>
	George W. Neuner	Reg. No. <u>26,964</u>	Robert L. Buchanan	Reg. No. <u>40,927</u>
	Linda M. Buckley	Reg. No. <u>31,003</u>	David E. Tucker	Reg. No. <u>27,840</u>
	Peter J. Manus	Reg. No. <u>26,766</u>	Lisa Swiszcza Hazzard	Reg. No. <u>44,368</u>
	Peter F. Corless	Reg. No. <u>33,860</u>	George W. Hartnell	Reg. No. <u>42,639</u>
	Cara Z. Lowen	Reg. No. <u>38,227</u>	Jennifer K. Holmes	Reg. No. <u>46,778</u>
	William J. Daley, Jr.	Reg. No. <u>35,487</u>	Kerri Pollard Schray	Reg. No. <u>47,066</u>

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EDWARDS & ANGELL, LLP
Dike, Bronstein, Roberts & Cushman, IP Group
130 Water Street
Boston, Massachusetts 02109
 USA

Direct Telephone Calls to:
 (name and telephone number)

Peter F. Corless	Telephone: (617) 523-3400
	Facsimile: (617) 523-6440

Full name of sole or first inventor		
<u>Margaret O'BRIEN</u>	Sole or first inventor's signature	Date:
<u>Margaret O'Brien</u>		<u>2/11/2000</u>
Residence		
Flat 2, 63 Shandon Street, Cork, Ireland	<u>TEX</u>	
Citizenship		
Ireland		
Post Office Address		
Same As Above		

Full name of second inventor		
<u>John BERMINGHAM</u>	Second inventor's signature	Date:
<u>John BERMINGHAM</u>		
Residence		
37 Castleknock Crescent, Castleknock Co. Dublin, Ireland	<u>TEX</u>	
Citizenship		
Ireland		
Post Office Address		
Same As Above		

3-00

Full name of third inventor	
<u>Kathleen A. QUANE</u>	
Third inventor's signature	Date:
<u>Kathleen Quane</u>	11/10/2000
Residence	
Monanomy Upper, Killavullen Co. Cork, Ireland	<u>IRX</u>
Citizenship	
Ireland	
Post Office Address	
Same As Above	

4-00

Full name of sole or fourth inventor	
<u>David M. JENKINS</u>	
Fourth inventor's signature	Date:
<u>David Jenkins</u>	16-10-2000
Residence	
27 Highlands, Passage West, Cork, Ireland	<u>IRX</u>
Citizenship	
Great Britain	
Post Office Address	
Same As Above	

5-00

Full name of fifth inventor	
<u>Tommie V. McCARTHY</u>	
Fifth inventor's signature	Date:
<u>Tommie McCarthy</u>	10-10-2000
Residence	
Vista Villa, Montenotte, Cork, Ireland	<u>IRX</u>
Citizenship	
Ireland	
Post Office Address	
Same As Above	

Practitioner's Docket No. 55043

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: M. O'Brien et al.
Serial No.: Not Yet Assigned Group No.: Not Yet Assigned
Filed on: Herewith Examiner: Not Yet Assigned
For: HLA LINKED PRE-ECLAMPSIA AND MISCARRIAGE SUSCEPTIBILITY GENE

**STATEMENT CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) and 1.27(b)--NONPROFIT ORGANIZATION**

I hereby state that I am an official empowered to act on behalf of the nonprofit organization identified below:

Name of Nonprofit Organization National University of Ireland, Cork
Address of Nonprofit Organization College Road, Cork, Ireland

TYPE OF NONPROFIT ORGANIZATION

University or Other Institution of Higher Education
 Tax Exempt Under Internal Revenue Service Code (26 USC 501(a) and 501 (c)(3))
 Nonprofit Scientific or Educational Under Statute of State of the United States of America
(Name of State _____)
(Citation of Statute _____)
 Would Qualify as Tax Exempt Under Internal Revenue Service Code (26 USC 501(a) and 501(c)(3)), if Located in the United States of America
 Would Qualify as Nonprofit Scientific or Educational Under Statute of State of the United States of America if Located in the United States of America
(Name of State _____)
(Citation of Statute _____)

I hereby state that the nonprofit organization identified above qualifies as a nonprofit organization, as defined in 37 CFR 1.9(e), for purposes of paying reduced fees to the United States Patent and Trademark Office under Sections 41(a) and (b) of Title 35, United States Code, with regard to the invention described in

the specification filed herewith, with title as listed above.
 the application identified above.
 the patent identified above.

I hereby state that rights under contract or law have been conveyed to, and remain with, the nonprofit organization, with regard to the above identified invention.

If the rights held by the nonprofit organization are not exclusive, each individual, concern or organization having rights to the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 C.F.R. 1.9(c), if that person made the invention, or by any concern that would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e)

*NOTE: Separate statements are required from each named person, concern or organization having rights to the invention as to their status as small entities. (37 CFR 1.27).

Each such person, concern or organization having any rights in the invention is listed below:

No such person, concern, or organization exists.
 Each such person, concern or organization is listed below.

Name _____
Address _____

INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

Name _____
Address _____

INDIVIDUAL SMALL BUSINESS CONCERN NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

(check the following item, if desired)

NOTE: The following verification statement need not be made in accordance with the rules published on October 10, 1997, 62 Fed. Reg. 52131, effective December 1, 1997.

NOTE: "The presentation to the Office (whether by signing, filing, submitting, or later advocating) of any paper by a party, whether a practitioner or non-practitioner, constitutes a certification under § 10.18(b) of this chapter. Violations of § 10.18(b)(2) of this chapter by a party, whether a practitioner or non-practitioner, may result in the imposition of sanctions under § 10.18(c) of this chapter. Any practitioner violating § 10.18(b) may also be subject to disciplinary action. See §§ 10.18(d) and 10.23(c)(15)." 37 CFR 1.4(d)(2).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

 Name of Person Signing _____

 Title in Organization _____

Address of Person Signing _____ National University of Ireland, Cork

College Road, Cork, Ireland

Cork University College, Cork

 SIGNATURE _____

Date 16/11/2000

 Secretary, University